	Application No.	Applicant(s)	
Notice of Allowability	10/748,250	MULDER, JAN	
	Examiner	Art Unit	/
	Patrick G Wamsley	2819	pm
The MAILING DATE of this communication app All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85 NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT R of the Office or upon petition by the applicant. See 37 CFR 1.313	S (OR REMAINS) CLOSED in this) or other appropriate communica RIGHTS. This application is subject	application. If not included tion will be mailed in due co	l ourse. THIS
1. This communication is responsive to			
2. The allowed claim(s) is/are <u>1-40</u> .			
3. The drawings filed on 31 December 2003 are accepted by	the Examiner.		
4. Acknowledgment is made of a claim for foreign priority unal. All b) Some* c) None of the: 1. Certified copies of the priority documents have 2. Certified copies of the priority documents have 3. Copies of the certified copies of the priority documents have 1. Certified copies of the priority documents have 2. Certified copies of the priority documents have 3. Copies of the certified copies of the priority documents have 3. Certified copies of the priority d	e been received. e been received in Application No ocuments have been received in the	his national stage applicatio	
5. A SUBSTITUTE OATH OR DECLARATION must be subm INFORMAL PATENT APPLICATION (PTO-152) which giv			TICE OF
 6. ☐ CORRECTED DRAWINGS (as "replacement sheets") must (a) ☐ including changes required by the Notice of Draftspers 1) ☐ hereto or 2) ☐ to Paper No /Mail Date (b) ☐ including changes required by the attached Examiner Paper No /Mail Date 	son's Patent Drawing Review(P		
Identifying indicia such as the application number (see 37 CFR 1 each sheet. Replacement sheet(s) should be labeled as such in t	1.84(c)) should be written on the dra the header according to 37 CFR 1.1	awings in the front (not the b 21(d).	ack) of
7. DEPOSIT OF and/or INFORMATION about the depo attached Examiner's comment regarding REQUIREMENT			ite the
Attachm nt(s) 1. ☑ Notice of References Cited (PTO-892)	E Nation of Informa	al Patent Application (PTO-	450)
Notice of References Ched (P10-092) Notice of Draftperson's Patent Drawing Review (PT0-948)	6. Interview Summ	ary (PTO-413),	102)
 Information Disclosure Statements (PTO-1449 or PTO/SB/0 Paper No./Mail Date 12/31/2003 □ Examiner's Comment Regarding Requirement for Deposit 			ance
of Biological Material	9. Other		

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REASONS FOR ALLOWANCE & EXAMINER'S AMENDMENT

An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Claim 1, line 3: Change "an signal" to – a signal --.

Claim 3, line 2: Delete "ladder."

Claim 14, line 3: Change "an signal" to – a signal --.

Claim 14, line 7: Change "voltage taps" to – voltage tap ---

Claim 27, line 3: Change "an signal" to – a signal --.

Claim 34, line 3: Change "to a the first" to – to the first --.

Claim 40, line 3: Change "an signal" to – a signal --.

Authorization for this examiner's amendment was given in a telephone interview with applicant's representative, Attorney George S. Bardmesser, on 05/11/2004.

The following is an examiner's statement of reasons for allowance: the references of record neither reveal nor render obvious an array of differential amplifiers having interpolated voltage taps wherein inputs are shifted and zero crossings represent the input signal. U.S. Patent 6,573,853 to Mulder; 6,583,747 to van der Goes et al; 6,628,224 to Mulder et al; 6,697,005 to Mulder; and 6,720,798 to Mulder et al are all related to the instant invention. U.S. Patent 6,720,901 to Nakamoto discloses an interpolation circuit having differential amplifiers and voltage dividing element arrays. U.S. Patent 6,714,886 to Sung et al provides an amplifier array and an interpolative resistance ladder. U.S. Patent 3,798,557 to Scott et al describes interpolation of sinusoidal signals using zero-crossing detection techniques.

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Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Patrick G. Wamsley whose telephone number is (571)

272-1814. Send facsimiles to (703) 872-9306

Patrick G. Warnsley May 10, 2004